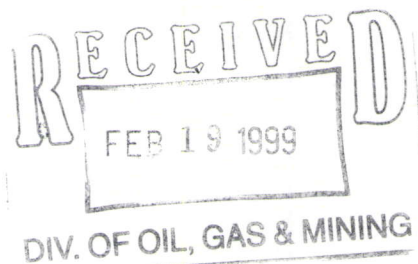




ENVIRONMENTAL INDUSTRIAL SERVICES

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5/015/077



VEGETATION INVENTORY BLUE CASTLE MINE GoldTerra

On February 3, 1999 E.I.S. conducted a vegetation inventory for the proposed Blue Castle Mine site. Mel Coonrod and David Steed conducted the inventory.

The area was divided into two separate units. Unit A: Vegetated area and Unit B: Bare Mancos. (See exhibit 1, Unit A and exhibit 2, Unit B.) The bare Mancos area was devoid of any vegetation, therefore Unit B is not considered relative to species lists or productivity.

Unit A has relatively poor productivity, estimated at approximately 100 pounds per square acre. The soil is largely weathered mancos with a scattering of sandstone flakes. The total depth of both A and B horizons averages less than 3 inches in most areas.

A total inventory of the area was conducted. Follows is a list of species which were identified:

GRASSES:

Galleta
Needle & Thread
Indian Rice Grass

Hilaria jamesii
Stipa comata
Oryzopsis hymenoides

**-PAGE TWO-
VEGETATION INVENTORY**

FORBS:

Penstemon	<i>Penstemon sp.</i>
Chrysothamnus	<i>Chrysothamnus nauseosus</i>
Snakeweed	<i>Gutierrezia sarothrae</i>
Juniper globe mallow	<i>Sphaeralcea digitata</i>
Cactus	<i>Sclerocactus sp.</i>
Prickly pear cactus	<i>Opuntia polyacantha</i>
Halogeton	<i>Halogeton glomeratus</i>

SHRUBS:

Fourwing saltbush	<i>Atriplex canescens</i>
Mat saltbush	<i>Atriplex corrugata</i>
Winterfat	<i>Krascheninnikovia lanata</i>
Rubber rabbitbrush	<i>Chrysothamnus nauseosus</i>
Shadscale	<i>Atriplex confertifolia</i>

Representative photos are attached as Exhibits 3-10.

TES INVENTORY
BLUE CASTLE MINE
SITE PHOTOGRAPHS

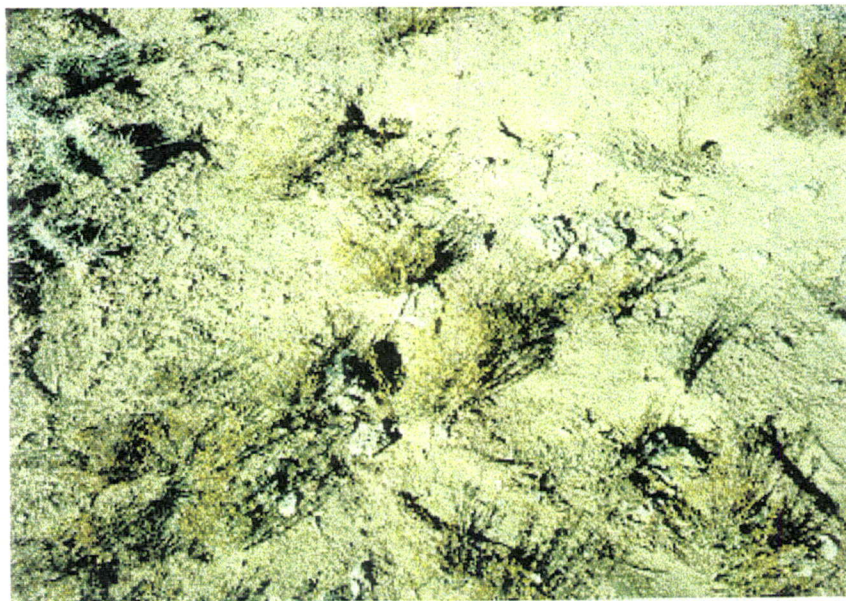


Exhibit # 1

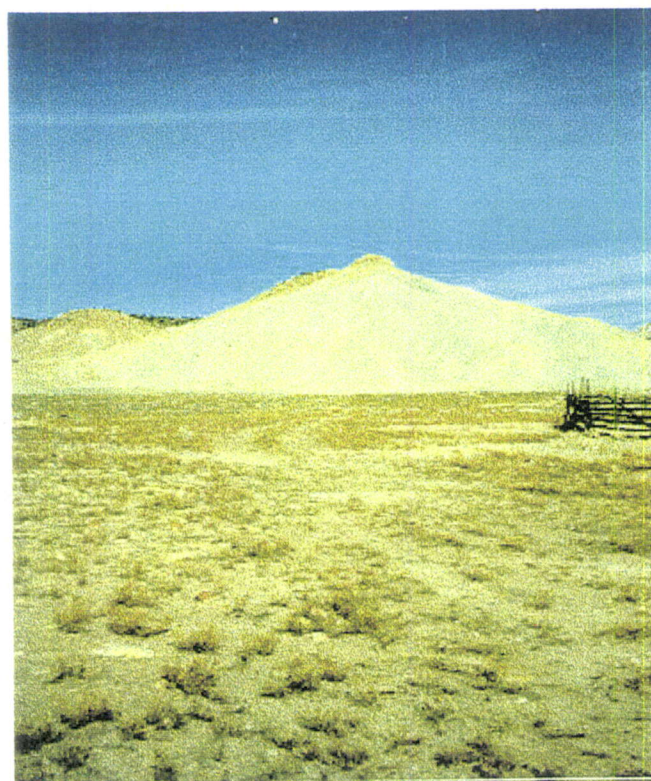


Exhibit #2

VEGETATION INVENTORY
BLUE CASTLE MINE
SITE PHOTOGRAPHS

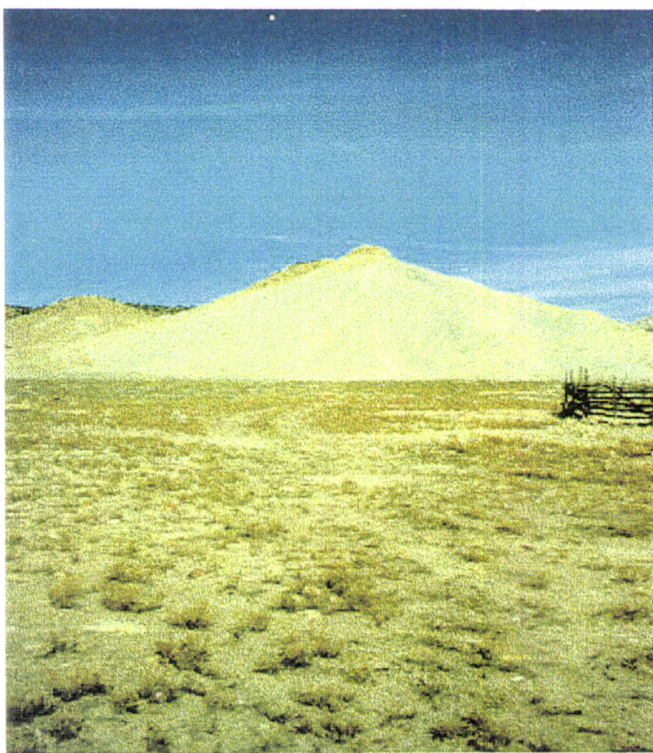


Exhibit # 1



Exhibit # 2

VEGETATION INVENTORY
BLUE CASTLE MINE
SITE PHOTOGRAPHS



Exhibit # 3 Chrysothamnus



Exhibit # 4 Penstemon

VEGETATION INVENTORY
BLUE CASTLE MINE
SITE PHOTOGRAPHS

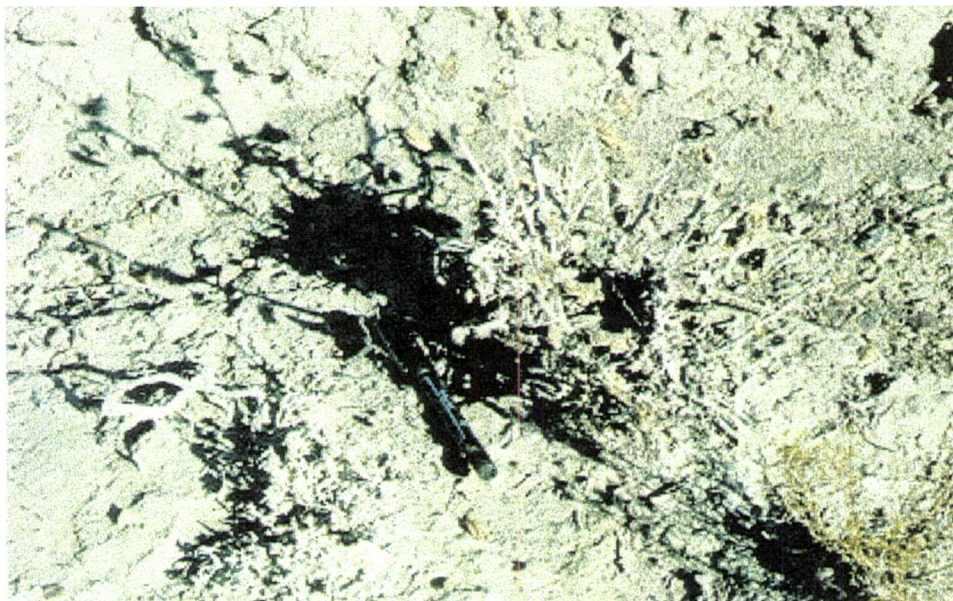


Exhibit # 5 Globe mallow

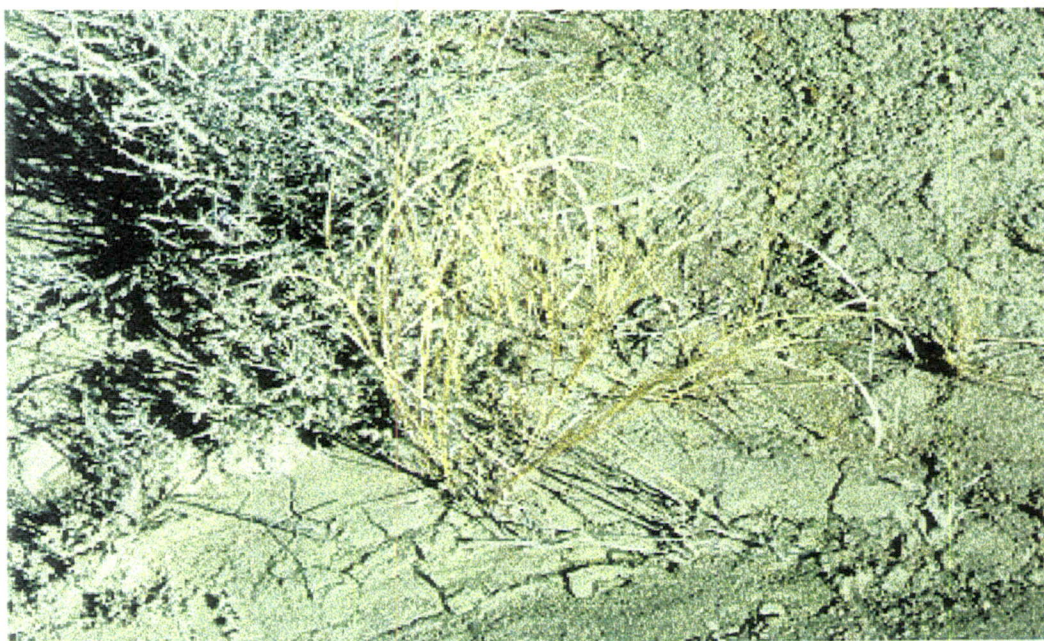


Exhibit # 6 Needle & thread grass

VEGETATION INVENTORY
BLUE CASTLE MINE
SITE PHOTOGRAPHS



Exhibit # 7 Galleta

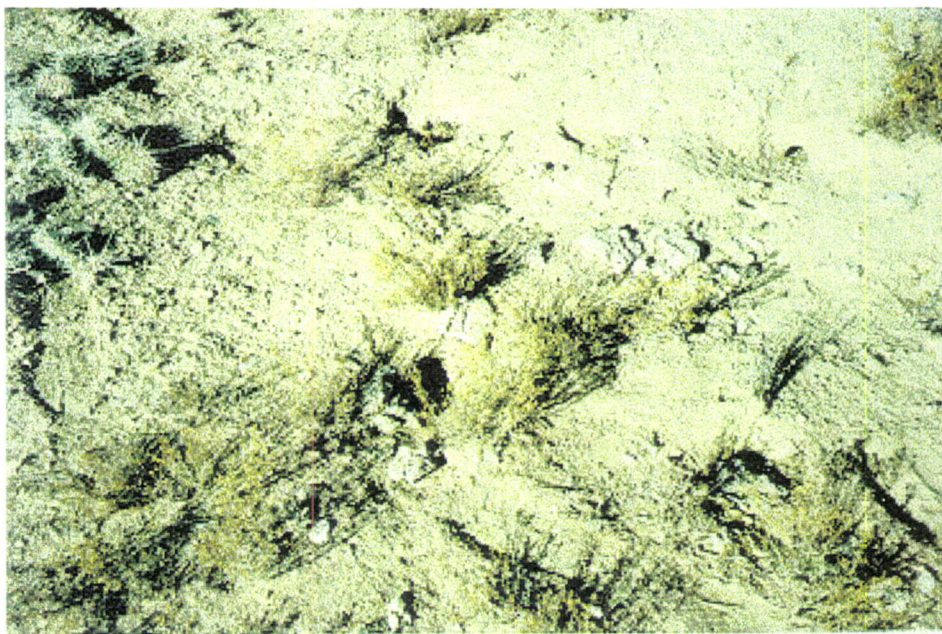


Exhibit # 8 Snakeweed

VEGETATION INVENTORY
BLUE CASTLE MINE
SITE PHOTOGRAPHS



Exhibit # 9 Fishhook cactus

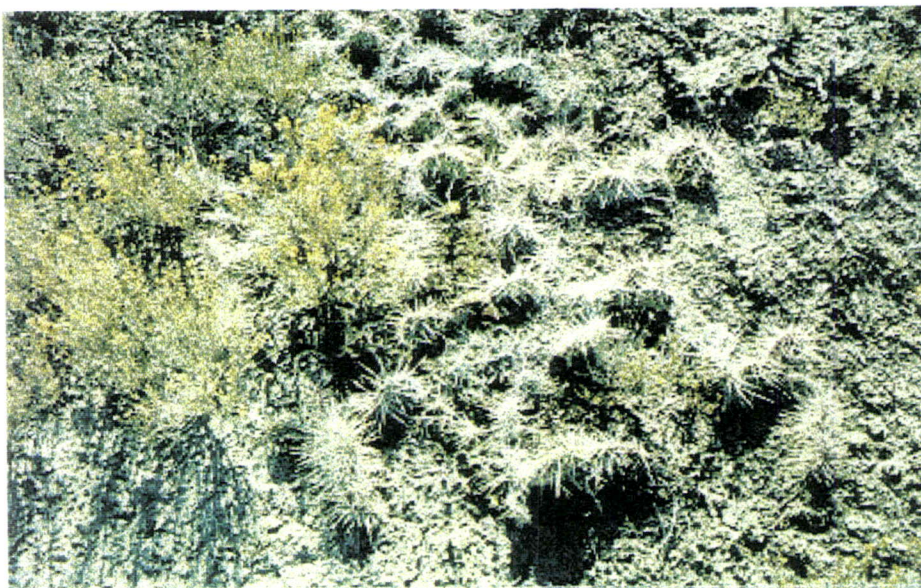


Exhibit # 10 Prickly pear cactus